## THE IDEAL HOUSING FOR FUTURE LAYERS AT MINIMUM EXPENSE Cooking and Serving, Conducted then be lessened a little by drawing the

Iany Features Should Be Considered Before Deciding on Building.

entilation, Heat, Moisture, Sunshine, All Have Effect on Flock.

BY REEVES V. HICKS anager of Rancocas Poultry Farms, Brown's Mills, N. J. and former President of the American Poultry Association.

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is as disastrous as too little. he important quistion is to provide your layers comfortable, sunny, wellquarters-built substantiand all without extraordinary exe. It can be done. Read the followarticle and learn how

hold down the cost of the house, at the same time give a house that meet the ideal requirements for high or that is not absolutery necessary end capital and brings no return on investment. On the other hand, the iderations or there is loss in low egg iction or in .he health of the flock. \$10,000 is invested in a house for 1,000 s when \$2,000 would have housed them t as satisfactorily, the extra \$5,000 is y thrown away. The price for housfuture layers varies with the styl building. Two dollars per bird is the minimum that can ever be hoped to attained. The ideal figure is about per bird.

The roof of the house should be what known as shed type, sloping from the ont to the rear. Light penetrates betin a shed type and more sunshine get in than in any other style use. In the winter the sunshine will front. The shed type is easy to build, ns water to the rear and the roof will longer than any other kind.

is makes a good working height for attendant of the poultry. In buildow stables it is a rule to allow one rule in poultry, as it would the the house too small for the atfloor space should be not less than here small colony houses are used. owever, it is far more economical to use 500 lens in one building than 160 ens each in five houses. The most cor entent size of house for 500 hens is 14 THE PRINCIPLES GOVERNet deep and 100 feet long. Such a house ill nicely accommodate 500 Leghorns, ie most popular breed for egg farming. The best material for the floor is coent, and while it is expensive, it is ratroof, dry, sanitary and lasting, A ement floor should be covered at least anot be obtained the litter alone may used. This little should be kept clean ed sanitary, and changed as often as ay be necessary in order that it may dry and wholesome.

REQUISITES FOR WALLS

ng there should be at least 20 windows. of glass and to of muslin. The musards, if desired, confined in the house. he doors should open at the east and est ends of the house.

ossible a hillside should be avoided, as his makes the building more costly and

sult the ventilation should be simple on source from which plants get carbon, byup the gun behind the bird, swing aftthe box rests for air to get to the lame, real value,
the box rests for air to get to the lame, real value,
the box rests for air to get to the lame, real value,
the box rests for air to get to the lame.

The next rhich grown fowls are to be kept. Of ourse leaky roofs must be avoided. HOW TO PREVENT DRAFTS.

Drafts in poultry bouses are prevented ter y having the rear and two sides as air ight as possible, and vertilating through ance from the rear to the front about general election.



natever dead and foul air accumulates one-third the width of the house. This slopang too, one-duff the top hinged tomacy grat and stall beautiful. are on the roosts.

> material, and these should run length- ing on it at night. Nests placed in this save the attendant frequent visits to the wise the entire length of the house in position can be easily reached and the house to throw the fewls grain on had three parallel rows about sixteen inches eggs gathered without the inconvenience days. trestle over the dropping hoards, or they dropping hoards.
>
> The water fountains should be simple. floor with a liberal litter, these are hard: a scant against the rear wall. It is best, how- and of a kind that are open, or else can by necessary. Hens prefer to select their won. Cook alx or seven minutes.

The nest boxes should be in front be- be c'used out daily. tween the windows, and covered with a The house should be equipped with star buth.

rise to the roof and pass out through prevents drafts on the hens while they against the wall so it can be opened in hoppers and hoppers for beef scrap. It the daytime. These tops should be closed The roosts should be on dropping down at might to prevent broady hens will also pay to use a system of autoboards not exceeding three feet above the from staying on the nests, and the slops matter feeders and exercisers for winter floor. The best roosts are made of 2 x 2 ed top will prevent the bens from roost- feeding. These keep the bens busy and

> ever, to have them so they may be easi- be easily opened up and thoroughly own dust baths, and if they can find a ly removed for cleaning, disinfecting and cleaned. Any unused water should be sardy place on the floor in warm sunto fight lice and miles.

by Lillian Mason.

BOILED LEG OF MUTTON.

Wipe a leg of mutton weighing about light pounds, using a cloth wrong out of cold water. Have the kettle large enough to allow the meat to be entirely covered a tablespoon each of finely chopped with boiling water. Pour the water from the when the mear is fald in and let the you find office off too expensive. If offices So Asserts Rhode Island Wan at water come to the bolling point and boll are not at hand, omit, and add a little fast for a quarter of an hour. Skim well more pickle. and draw the kettle back to where the meat will simmer until done. It will take about two hours or more according to size and degree of rareness desired.

Lay the leg of mutton on a warm platter; garnish with a few sprigs of marsley, you have added a saltspoonful of sa leg of mutton is not a sightly portion if in two teaspoonfuls of butter, heat har left ungernished.

Melt three level tablespoons of butter in sauce pan, add four level tablespoons of flour and stir rapidly to make smooth. Do not let the mixture burn, but it should ded before taking from fire.

SALMON AND CELERY SALAD. We can not good salmon all the way from eight couts a can for good pink sale it the cash stores in cities, to as half cup of lukewarm water. Heat one been about four hundred but chiefly on the profit of the dealer and bowl. When lukewarm add one level canner. I had some very nice for eight teaspoon of sait and level teaspoon of cents and after trying one can, immedi- sugar. Add the yeast and enough who ately bought half a fozen more to make wheat flour to make a batter. sure of the same brand.

properly freed from skin and bones and mix in a little salad dressing. When servgood hearty dinner dish, which, with a carry dessert will make a good dinner.

THE DRESSING.

The following is a good dressing for fish emetard actablespoon of sugar, a slightroundfor tea-poon of flour, a half tea-

then in an egg braten with one tablespoon

of water and skaln in fine bread crumbs Lay the fish three or four at a time in a frying basket and fry in deep hot fut. The kettle back until the fish is cooked through. Serve with sauce fartare, or not, as they are amply good without any add-

SAUCE TARTARE

Make a mayonnaise dressing and add pickles, capers and olives. In making mayonnaise, try saind oil, it

Sonk a cup of hominy in cold water for six hours. Drain and turn into double boller with a pint of milk to which Cover and cook for two hours, then sti and serve. Ent as a vegetable, or wi cream and sugar, as a dessert, or with eream alone. If used as a breakfast real the butter may be omitted.

.This may be made of dates or proper he frothy. Set the pan back to where the Mensure one cup of the stoned fruit, cut in heat is less, then turn in slowly two cups places, and cook in a little water slowly spenking of the necessity of the f bolling water, stirring constantly; let it until tender. Press through a coarse a so bit boilt two minutes, then add a half level strainer, add one can of sman in which a the American in tenspoon of salt, and a very little passivel tenspoon of cream factor has been world over an a order and two rounding tablespoons of stirred Beat the whites of four eggs fresh. The are desired butter out in small places. When the but- with a pinch of sait until stiff and dry, of true rounds for the table ter is melted and the sauce has come to Add the yolks of two eags and heat light and the wray halve the bolling point again, take out about Now add the dates slowly and turn into a The little is the bollder of the four tablespeens of sauce and pour over well buttered baking dish. Scatter on church and of all the most thin mutten, then add there rounding ta- one-half cup of finely ground or chopped, would of today. History please moons of camers to the remainder and not meats and bake in a moderate oven introduction of the Bible into the outline Tasic and see if more seasoning is if minutes. Serve with thin cream or with schools for the sake of culture, environmental and see if more seasoning is if minutes. Serve with thin cream or with schools for the sake of culture, environmental for the sa less might.

WHOLE WHEAT BREAD

Dissolve one-half yeast cake in oneas slightly on the quality of the salmon, cup of boiling water and pour into a gover different meals eight minutes, then add enough flour to make a soft dough, yet one that is stiff enough to knead. Turn onto the well floured board and knead elight rolnptes Put into bowl, cover with a cloth and let rise three or four hours or until light. Knead five minutes, make into loaves and let rise an hour before bak-

con sait and a speck of red penper. Add half cupfuls milk one heaping tablea teater err and half a cup of vine- meg or chunamons. That up the cake, warning when a third party breaks in tirring to make smooth. Stir in a little ding dish. Make a boiled custard of the

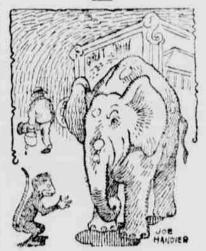
STALE SPONGE CAKE PUDDING.

ing in a moderate oven.

milk or cream if desired when taking from egg volks, milk, sugar and a pinch of salt and flavoring. This pudding is very nice flavored with orange, the grated rind being spread over the snenge cake. Beat boiling water until very tender, add two level tablesmoonfuls of sugar, Pour on a thick cream sauce heat again until the mixture is smooth, or of with a little made. Made must arrange neatly on top of the pudding. apart. They may be supported on a when nest boxes are placed under the Some houses are equipped with dust the sauce allow three level made spoons of is unnecessary if the sauca is thoroughly third party on the | buths, but where sand is used on the latter, counding table poon of four and beaten with the whites, but for some of her milk with salt to sear dishes it is better to bake the white the book produces a musical s slightly. When this is to be done, mix notifies the users of the sugar very carefully with the whites; indicates the same whomas the far eform

> ant which has been slightly salted, and inventor claims it will offer a ting it show the edges. Boll them in in a considerable reduction of pts may be used in the same sweet date being very delicious.

### IN THE CIRCUS



the Elephant-What makes you The Monkey-That painter has been

The Pine Tree's mournful mystic sons

years: And my eyes are filled with blinding

tentra

Closing Session of the Vermont Sunday School Association.

ire. Oct. 23 -At the closing session Con this morning the Rev Dr.

Miss Lawson of New York city on "Footnrints and Stepping Stones" The total attendance of delegates has high a price as we desire to pay, depend- cup of milk in a double boller, add one hundred persons have been surved at

### TELEPHONE ESPIONAGE

Bent Device Rendering Impossible the Envesdropping of Third Parties Perfected

It is reported that A. G. Howard o Nebraska has invented and perfected a striments, will render impossible that cavesdropping of third parties, which is photograph of a woman a work at her sewing-machine, with the receiver of the Take some pieces of stale sponze cake, guilfng her labor by listening to the cosome nice jam, two ergs, one and ones versation of her neighbors. Blustrates the rounding full-emoon of butter or butter- spoonful sugar, flavoring (vanilla, nut- remedy, it is so devised as to sound a Cook over hot water fill thickened, spread with fam, and quarter fill a pud- the wire, and also, it is claimed, identi-

processls. In addition to this, son is ones is not only a removing press the date figure to the nut, let- les on latteries and will eventurme position

> other follow business "a talen if possible, to be described and purely

THE DURING PRINCIPLE diffeom the Versenness fantagen The Waterbury American, the wallet independent new paper of Course paper that always stands for a

The direct primary, as is been more and more obvious, is only an inclusment and the end to be obtained by depends upon those who use it. It won't work alone and it has been proved ever and over agon that It is without efficacwhere the public interest is small. There is just as much opportunity then for the man of means and energy, who sees what to wrists and core after it while others are independent, as was the case under the did form if posple are awak and interested they wan nations. Ander both forms hellsberens The foundation should be of cement and not less than twelve inches in the growth of the world freezing.

The foundation should be of cement and not less than twelve inches in the growth of the should record be finds there are more and larger than a sufficient amount of ash, and water and poorer ones as the first of the should not less than twelve inches in the growth of the shoulder and tet the butt place, properly ventilated, are the kind of the shoulder and tet the butt place, properly ventilated, are the kind of the growth of ters. That is our great popular weakness and danger. The people can have their way without the direct primary, if they are interested and vigilant, and the direct primary won't save them if they are not This is in accordance with the views which have been expressed in this paper We believe Vermont should have a direct primary because the people in small mi nority of them) have said they want it. But under that law they will get just such government as they deserve, same as they do now. It is possible to have good, clean government under the present systems just as it will be possible o have it with a direct primary. The omination of Clates shows that the peode can get what they want if they will take the pams to go after it. As the American save, it is only by being inter-

> THE LEVELLING PROCESS. Chaity Centieman-What's your opinion

sted and visitant that they can have their

of the war? Are you an optimist or 6

The other One-Well, really I'm a brick

# avier breeds require more space than estable so, where the long continuous house SUBURBAN AND AGRICULTURAL NOTES

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### ING CATTLE-FEEDING—I.

A Little Study Will Start One Right.

E. K. PARKINSON. tree inch s deep with a good sand, and ration is essential to economic productive sport. Of course, the days of live try raising that of not less than tion. There are many dairymen who purcon shooting at the traps are about x to twelve inches. This is for winter would like to feed wisely, but imagine over, many deeming it cruel and un- it is the great irregularity of income amusing, but once the printical worth of se. For summer use the litter need not that, in order to understand balancing ras sportsmanlike, but clay pigeon shoot-during the year Fortunately, since the these two eye-openers is appreciated all used, but only the sand. Where sand tions, they must take a course in an agri- ing is more popular than ever the development of the parcet post, the doubt as to the value of the suggestion not be obtained the litter alone may cultural college, whereas a very little novice, however, who goes in for it will

case we know that certain elements and depend much of his future pleasure. In building the walls for a poultry necessary to the well-being of the plant, the fit than in the make. It is generouse, temperature, dryness and purity that each serves certain definite ends, and ally conceded that for trap work a 12air are the three main considerations, that, except within prescribed limits, one gauge gun weighing about 7% pounds very economical way to build a rea- cannot take the place of another. Thus is best, either a single-shot, repeater, mable-priced wall and at the same we know plants are not nourished by ma- or double-barrel, whichever is perme get the maximum of comfort is to nure or fertilizer, as such, but take from sonally preferred. In looking over a so one thickness of lumber on the north, them certain essential compounds in defi- number of guns it will be noticed that ist and west sides and line it inside nite proportion. The same is true of ani-ith roofing paper. For the front, mals, A cow is not nourished by eating more of a drop from the "comb" (a indows should be placed alternately of hay, pate or corn meal, as such, but her point on the stock near the breech end) ass and muslin. In a house 100 feet system is able to take from them elements to the "heel" (at the butt end) than n windows should be covered with wire and compounds the animal body and animal is one that hasn't too much "drop" to etting, so that on favorable days the mal product rectain and what introdictions in the arms with a

> ents in foods go to form them. STUDYING THE COW'S BODY.

A cow's body contains different tissues The poultry house should be built level siich as hair, brain, bones, muscles, etc. d on land as level as possible, facing and, moreover, the body and its product milk, contain many complex compounds he south, and have its southern exposure both sloping away from it. Wherever

ound in order to avoid freezing.

Owing to the pitch of the roof of a he a name applied to several compounds muzzle pointing upward. If no reads deed, some farmers have found their pure it, the facts are there before him hed type, building paper for roofing is which make up parts of the bones, musjustment of the position of the finger
cel-post trade so profitable that they ship
which make up parts of the bones, musjustment of the position of the finger
cel-post trade so profitable that they ship
which make up parts of the bones, musjustment of the position of the finger
cel-post trade so profitable that they ship
cel-post tra nd too warm in summer. The rafters compounds included under protein contain gun stock fits as to length; a trigger hould be of 2 x 4 material and not more introgen usually present to the amount pull of about four pounds is satishome-made candling outlit is a very simhas been recommended director, and affair, consisting of an ordinary small
and affair, consisting of an ordinary small
and affair, consisting of an ordinary small

nd free from drafts during the winter body, contains carbon, hydrogen, and oxy- and with a friend to work it, go out large chough to held the large to but no nitrogen. The elements of fat into some field and practice a bit. Have and big enough to prevent all danger of a largely by condensation from the large translation from the large translat and big enough to prevent all danger of and big enough to prevent all danger of the see primarily derived from the air, for a dozen or two birds released some 20 line. A small round hole should be cut on a least breath, evaporation from the drink-plants furnish the material from which a yards distant, so that they fly at right a level with the flame of the lamp and several netches along the edges on which several netches along the edges of the edges o

### THE SPORT OF TRAP-SHOOTING.

Let the Boys Join a Gun Clab.

Almost every community of any size has a gun club to-day, where member- It is often claimed by young men ap-In order to feed our cows balanced ra- thip may be had for a modest sum, and women who would like to make their tions, we must know why a balanced where shooting at the traps is a favor- going by farming or eardening, or pool- square feet of tand and over invest in a study would soon bring the idea clearly do well to visit his club a few times at broducts of namy kinds are marketed. The first question asked will be fore them. The principles of animal feeding are shoot, noticing the guns in use, etc., similar to vegetable feeding. In the latter for on the proper choice of a gun will

compounds (two or more elements) are The secret of a good gun is more in necessary for the economic production of others. Without attempting to go into meat, milk, or muscular energy. To feed too many explanations, the beginner wisely, then, we must know what elements should use a "straight stock," which windows can be opened and the mal product contain, and what ingredigit. As a general rule, a gun with a drop of 1% inches at the "comb" and two inches at the "heel" will give satisfaction. Another point to be conaldered is the thickness of the stock; the thin-faced man will find a stock with a thick, well-rounded comb more the purpose of studying the princt. The true of the round, proper conditions should be shipped. Inhe photographs his crop, taking the same. And beyond in grandeur the mountains. under the following heads: Protein, fat, plump-cheeked man. To find out if the fertile eggs, gathered twice a day from number of pictures and in the same stock fits as to length, place the gun

ments, protein, fat, water, and ash. In very table foods are found, in addition, crude fibre and nitrogen-free extract matdisks. The point is to get the habit containing 500 sheets which are excellent era, with a rapid rectilinear iens, will of swinging on past the clay and refor wrapping around each egg, and the answer. Such a camere will take a picThe South Carolina Segate passed a bill leasing the trigger smoothly as you go. dest containers for egg shipment are ture about 25x35 inches in size.

They say this picture so passing fair
is naught to the beauties "over there." authorizing a \$55,000,000 bond issue for the With a little experience the knack will fibre-heard boxes fitted with corrugated. Don't try to develop the films; either thould be kept closed during unfavorable beautiful a Nicola bound be kept closed during unfavorable beautiful a Nicola beautiful and partitions, each give them to a local photographer or pasteboard lining and partitions, each give them to a local photographer or pasteboard lining and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions, each give them to a local photographer or burning and partitions.

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### PARCEL-POST EGGS.

Put Your Eggs in Unete Sam's Basket.

A. F. PIERCE. only with an increase of income, but given in the form of an illustration with a better distribution of it through- Brown owns a ten-acre property on out the year. which he lives. He is interested in agri-

Erks in particular have found the pur- culture and desired to use the best to direct relations with the consumer horse, swins and pouttry. Now the methgetting better eggs for a lower price and station (from whence his built-tins come) man treats his untomore promptly and to find out is to too them.

number of even avallable.

direct, only also included by strong, comment under them. The following All nature broads with a tender grace

the place to null up or out

### A CAMERA AND A NOTE-BOOK.

A firest Rely in Finding Mistakes.

MORN ASHLEY. To suggest that owners of a hundred

over a wider area than ever before, not use can be made of them? The reply is

cel post a barroy medium for their methods, in growing his crops, caring for transportation, the producer coming in- his pasture, and feeding his four cows. thereby and me a result the householder ods in the locality where the experiment the president precising higher prices is stituted, may or may not be suited with more recularity. If the poultry to his soil, etc., and the only way fairly there is little difficulty to establiquents a field of corn, using the fertilizlishing a parcel post trade, and a reputating ingredients in the proportions and daubing me with white paint tion for attietly high-stude would one according to directions in the bulletinmade the securities of new customers is The crop in due times appears and pes- set the dots on vona simple matter. A small advertisement gibly develops unevenly or goes too much n the town paper often brings the des to leaf or the leaves turn yellow, or, ensired trade, or a printed notice ment to the other hand, it may prove to be a restricted by the side of this boulder grand tocal addresses stating the price and markable erop. Brown takes his camera, I sit and took o'er a goodly land. secures several photographs of his corn There's a Sabbath stillness in the air INFERTILE EGGS ARE BEST. In its different stages of development, and And peace and quiet everywhere, To retain a good trails with sustainers pastes them in his notebook making healthy heres kept under cleanly and year he plants corn again in the same Around my sylvan resting place manner, but using different seed. Again Fuir Lake Champlain like a mirror des the nests, strictly clean when picked up stages of development. According to the ins washing the egg removes the natural record be finds there are more and larger. And seen through the bright autumn haze

The important thing in a poultry house casein of milk belong to this class.

Before going to the club to shoot, hand lamp and a currogated pasteboard oats, and while his rote-book and photos We wait and list for a voice from the past how, with the top and bottom removed on the club to shoot, with the top and bottom removed on the club to shoot, with the top and bottom removed on the past how, with the top and bottom removed on the club to shoot, and with a friend to winter body, contains various by the case of the club to shoot, with the top and bottom removed on the past how, with the top and bottom removed on the club to shoot. ises to be cheaper. Thus in a hundred So my thoughts go floating down the ways the camera and notes have been of

The next question will be-what kind With a knowledge of what the animal and as the muzzle comes into the scene The candling, of course, is done away of a camera is to be recommended? That And I seem to see with an inward sight

absolutely



So be so mad? aubing me with white paint is elean and honest in formation, was The Eiophant-No use kicking. He's this to say of the direct primary:

PROM MT. PHILO.

Sends through my being a sort of thrill,

With a knowledge of what the animal and as the muzzle comes into the scene from any strong light desirable body contains we will next week take up back of the bird, swing quickly past plack of the bird, swing quickly past plack of the bird, swing quickly past foods; and in them will find the same close it, and pull as you pass; don't step dark) that the conditions of the eggs willing to invest Cameras come in various places. It is never advisable body contains we will next week take up back of the bird, swing quickly past foods; and in them will find the same close it, and pull as you pass; don't step dark) that the conditions of the eggs willing to invest Cameras come in various places. It is never advisable body contains we will next week take up back of the bird, swing quickly past foods; and in them will find the same close it, and pull as you pass; don't step dark) that the conditions of the eggs willing to invest cameras come in various places.

personaler?

layer's inherer by trade.-Tatter,